

**ABSTRACT**

A system and method incorporating Differential GNSS for the display of a position in a map display. The map display system is used by air traffic controllers and pilots and vehicle drivers. The invention incorporates precise differential GNSS position information and precise digital maps of an airport / surrounding terrain and locates the GNSS determined aircraft position in the digital map. In this manner the pilot or vehicle driver knows his precise position with respect to nearby airport and terrain features presented in the digital map.

The air traffic controller utilizes precise on board determined differential GNSS position information being broadcast by participating aircraft using Automatic Dependent Surveillance. Precise Automatic Dependent Surveillance aircraft position information is then displayed in combination with a digital map. In this manner the air traffic controller views the position of the broadcasting aircraft in reference to airport and terrain features contained in the digital map.

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